LIVESTOCK GROSS MARGIN (LGM) LIABILITY/PREMIUM CALCULATIONS

Edit Description

Livestock Gross Margin (LGM) (Insurance Plan Code 82)

GROSS MARGIN GUARANTEE

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EXPECTED GROSS MARGIN = (TARGET MARKET 1 * EXP GROSS MARGIN
                                                         (field \overline{13})
                                 (field 7)
     (Internal)
      (TARGET MARKET 2 * EXP GROSS MARGIN 2) + (TARGET MARKET 3 *
                                 (field 124)
          (field 78)
                                                           (field 89)
      EXP_GROSS_MARGIN_3) + (TARGET_MARKET_4 * EXP_GROSS_MARGIN_4) +
                                   (field 910)
                                                           (field 146)
            (field 135)
      (TARGET MARKET 5 * EXP GROSS MARGIN 5) + (TARGET MARKET 6 *
              (field 104)
                                  (field 157)
                                                           (field 112)
      EXP GROSS MARGIN 6)
              (field 168)
GROSS_MARGIN_GUAR = EXPECTED GROSS MARGIN * COVERAGE LEVEL
      (field 179)
                                   (Internal)
                                                        (Internal)
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LIABILITY

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LIABILITY = GROSS_MARGIN_GUAR (field 1820) (field 179)
```

Note: (i) = $1,2,...,\frac{2}{5}000$

SIMULATED LOSSES

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SIMULATED GROSS MARGINS(i) = (FIRST MONTH GROSS MARGIN DRAW(i) * (internal)

TARGET_MARKET_1) + (SECOND MONTH GROSS MARGIN DRAW(i) * (field 7)

TARGET_MARKET_2) + (THIRD MONTH GROSS MARGIN DRAW(i) * (field 78)

TARGET_MARKET_3) + (FOURTH MONTH GROSS MARGIN DRAW(i) * (field 89)

TARGET_MARKET_4) + (FIFTH MONTH GROSS MARGIN DRAW(i) * (field 910)

TARGET_MARKET_5) + (SIXTH MONTH GROSS MARGIN DRAW(i) * (field 101)

TARGET_MARKET_6) (field 112)
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 $\begin{aligned} \text{SIMULATED_LOSSES} &= \sum \left(\text{MAX} \left(\text{GROSS_MARGIN_GUAR} - \text{SIMULATED GROSS MARGINS(i), 0} \right) \right) \\ & \left(\text{field } 1921 \right) \end{aligned} \end{aligned}$

Note: only use simulated gross margins greater than zero in calculation

TOTAL PREMIUM

PRODUCER PREMIUM

PRODUCER_PREMIUM = TOTAL_PREMIUM (field 268) (field 202)

Note: Subsidy not applicable for LGM.



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FCIC-Appendix III

Tag	No.	Picture	Rounding	Description
<target 1="" market=""></target>	7	9(05)	whole number	Number of swine the insured expects to
	,)(00)	Whole hamoer	market in the first month of the
				insurance period (Feb. or Aug.).
				insurance period (1 co. of 1 ag.).
<exp_gross< td=""><td>13</td><td>(+/-)</td><td>per ADM</td><td>Expected Gross Margin per swine for</td></exp_gross<>	13	(+/-)	per ADM	Expected Gross Margin per swine for
MARGIN 1>	13	9999 9999	per ADW	First Month from ADM L Suffix P.
_		,,,,,,,,,,		This is a signed field. Only the
				negative symbol (-) will appear if
				applicable.
				пррисцого.
<target 2="" market=""></target>	78	9(05)	whole number	Number of swine the insured expects to
TrintoB1_imilatE1_2	70)(03)	whole number	market in the second month of the
				insurance period (Mar. or Sept.).
				insurance period (war, or sept.).
<exp gross<="" td=""><td>124</td><td>(+/-)</td><td>per ADM</td><td>Expected Gross Margin per swine for</td></exp>	124	(+/-)	per ADM	Expected Gross Margin per swine for
MARGIN 2>	127	9999,9999	PerADM	Second Month from ADM L Suffix P.
_		7777.7333		Only the negative symbol (-) will
				appear if applicable.
				appear if applicable.
<target 3="" market=""></target>	89	9(05)	whole number	Number of swine the insured expects to
1111021_1111111251_0	0))(03)	whole number	market in the third month of the
		7		insurance period (Apr. or Oct.).
				insurance period (7 pr. or oct.).
<exp_gross_< td=""><td>135</td><td>(+/-)</td><td>per ADM</td><td>Expected Gross Margin per swine for</td></exp_gross_<>	135	(+/-)	per ADM	Expected Gross Margin per swine for
MARGIN 3>	100	9999.9999	perilain	Third Month from ADM L Suffix P.
_ ,		33333		Only the negative symbol (-) will
				appear if applicable.
				uppour ii uppiioueio.
<target 4="" market=""></target>	910	9(05)	whole number	Number of swine the insured expects to
		7(00)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	market in the fourth month of the
				insurance period (May or Nov.).
<exp_gross_< td=""><td>146</td><td>(+/-)</td><td>per ADM</td><td>Expected Gross Margin per swine for</td></exp_gross_<>	146	(+/-)	per ADM	Expected Gross Margin per swine for
MARGIN_4>		9999.9999	•	Fourth Month from ADM L Suffix P.
				Only the negative symbol (-) will
				appear if applicable.
<target_market_5></target_market_5>	1011	9(05)	whole number	Number of swine the insured expects to
				market in the fifth month of the
				insurance period (June or Dec.).
<exp_gross_< td=""><td>157</td><td>(+/-)</td><td>per ADM</td><td>Expected Gross Margin per swine for</td></exp_gross_<>	157	(+/-)	per ADM	Expected Gross Margin per swine for
MARGIN_5>		9999.9999	-	Fifth Month from ADM L Suffix P.
				Only the negative symbol (-) will
				appear if applicable.
<target_market_6></target_market_6>	11 2	9(05)	whole number	Number of swine the insured expects to
				market in the sixth month of the
				insurance period. (July or Jan.)

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<exp_gross_ MARGIN_6></exp_gross_ 	168	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for Sixth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<expected gross<br="">MARGIN></expected>	Internal	9(10).99	dollars and cents	Sum of (Target Marketings by month times Expected Gross Margins by month).
<coverage_level></coverage_level>	Internal	9.999999	NA	Coverage level submitted under the crop policy section.
<gross_margin_ GUAR></gross_margin_ 	179	9(10).99	dollar and cents	Expected Gross Margin times Coverage Level.
<liability></liability>	1820	9(10)	nearest whole dollar	Gross Margin Guarantee to nearest whole dollar.
FIRST MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	First Month Gross Margin Draw from ADM L Suffix C.
SECOND MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Second Month Gross Margin Draw from ADM L Suffix C.
THIRD MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Third Month Gross Margin Draw from ADM L Suffix C.
FOURTH MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Fourth Month Gross Margin Draw from ADM L Suffix C.
FIFTH MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Fifth Month Gross Margin Draw from ADM L Suffix C.
SIXTH MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Sixth Month Gross Margin Draw from ADM L Suffix C.
SIMULATED GROSS MARGINS(i)	Internal	9(10).99	dollars and cents	Five Six month Simulated Gross Margins(i) is the sum of (Gross Margin Draws(i) times Target Marketings by month).
<simulated_ LOSSES></simulated_ 	1921	9(10).99	dollars and cents	Sum of (MAX (Gross Margin Guarantee minus Simulated Gross Margins(i)), 0).
<total_premium></total_premium>	202	9(10)	nearest whole dollar	The result of 1.03 times (1/25,000) times Simulated Losses.
<producer_premium></producer_premium>	268	9(10)	nearest whole dollar	Producer Premium equals Total Premium.

Note: (i) = $1,2,...,\frac{2}{2}$ 5000